**Question 1**

ExceptionA is a super class of ExceptionB. A method test() in a class X throws ExceptionB. Class Y extends class X, and Y has overridden method test(). Can the method test() in Y throw ExceptionA ?

**Answer**: No

**Question2**

What is protected access specifier in java and when and how do you use it.

**Question3**

What are the types of polymorphism in java?

**Question4**

What are the short circuit operators in java and explain them

**Answer**:  || , &&

**Question5**

What is a marker object in java? Give an example.

**Question6**

Will the below code compile

**interface** IX1{ **public** String test(); }

**interface** IX2{ **public** String test(); }

**class** JavaTest **implements** IX1, IX2{

**public** **static** **void** main(String k[]){

JavaTest t = **new** JavaTest();

System.*out*.println("Print Out==" + t.test());

}

**public** String test(){

**return** "String";

}

}

**Answer**: Yes

**Question7**

How will you invoke method test() from main method

**public** **class** Testing {

**static** **class** InnerA{

String test(){

**return** "InnerA";

}

}

**public** **static** **void** main(String k[]){

}

}

**Answer**:

Testing1.InnerA a = **new** Testing1.InnerA();

a.test();

**Question8**

What will be the result when you execute the below code

**public** **class** Testing {

**static** **int** *a*[];

**static** {

*a*[0] = 2;

}

**public** **static** **void** main(String k[]){

System.*out*.println(*a*);

}

}

**Answer**: java.lang.NullPointerException

**Question9**

What is the primary difference between pessimistic and optimistic concurrency control?

**Question10**

What will be printed to console

**public** **class** Testing1 {

**public** **void** changeValue(**int** x){

System.*out*.println(" change value x = "+ x++);

}

**public** **static** **void** main(String k[]){

**int** x = 5;

Testing1 testing1 = **new** Testing1();

testing1.changeValue(x);

System.*out*.println(" changed value of x = "+x);

}

}

**Answer**:

change value x = 5

changed value of x = 5

**Question11**

What will be printed on the console

**class** A {

**public** **void** test(List list){

list = **null**;

}

}

**class** JavaTest {

**public** **static** **void** main(String k[]){

A a = **new** A();

List l = **new** ArrayList();

l.add("abc");

l.add("def");

a.test(l);

**for**(**int** i=0; i<l.size();i++){

System.*out*.println(l.get(i));

}

}

}

**Answer**:

abc

def

**Question12**

Write sample code to convert String date=”02/02/2010” to get Date object using java.text classes .

Answer:

DateFormat date = **new** SimpleDateFormat("MM/dd/yyyy");

date.parse("02/02/2010");

**Question13**

What API can I use to traverse a List in forward as well as backward directions?

**Question14**

Write an algorithm for merge sort

Answer:

**function** merge\_sort(m)

**if** length(m) ≤ 1

**return** m

**var** *list* left, right, result

**var** *integer* middle = length(m) / 2

**for each** x **in** m **up to** middle

add x to left

**for each** x **in** m **after** middle

add x to right

left = merge\_sort(left)

right = merge\_sort(right)

**if** left.last\_item > right.first\_item

result = merge(left, right)

**else**

result = append(left, right)

**return** result

**Question15**

Write code to implement any algorithm for searching an element in an integer array.

**Answer**: Linear search

Int elementToFind = 32;

Int[] elements = {31,42,53,645,64,123,52,6563,32,456,56,3,213,5,63,235,234,563};

For(int k=0; k<elements.length;k++){

If(elementToFind == elements[k]){

S.o.p(“found at ”+k);

}

}

**Question16**

What are implicit objects in JSP?

**Question17**

How do you make a Servlet as thread safe without using SingleThreadedModel Interface?

**Question18**

How can I serve Word/Excel documents to a web client from JSP's and/or servlets?

**Question19**

What is the difference between Http GET and POST REQUEST?

**Question20**

What is the difference between request.getParameter() and request.getAttribute() ?